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APPLICATION NO). F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,073		10/06/2003	Taisto Vilkman	3501-1072	4077
466	7590	10/13/2005	•	EXAMINER	
YOUNG	& THOM	PSON	SZEKELY, PETER A		
745 SOUTH 23RD STREET 2ND FLOOR				ART UNIT	PAPER NUMBER
ARLINGTON, VA 22202				1714	
				DATE MAILED: 10/12/2009	•

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/678,073	VILKMAN ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Peter Szekely	1714	
Period for	 The MAILING DATE of this communication appropriate in the property of the propert	pears on the cover shee	with the correspondence address	
WHIC - Extensions after \$ - If NO - Failum Any re	DRTENED STATUTORY PERIOD FOR REPL HEVER IS LONGER, FROM THE MAILING D sions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period e to reply within the set or extended period for reply will, by statutely preceived by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMU 136(a). In no event, however, ma will apply and will expire SIX (6) I e, cause the application to becom	NICATION. y a reply be timely filed MONTHS from the mailing date of this communication. e ABANDONED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on 06 C	October 2003.		
·	_	s action is non-final.		
<i>,</i> —	Since this application is in condition for allowated closed in accordance with the practice under a	•	•	
Disposition	on of Claims	<u>.</u>		
5)□ 6)⊠ 7)□	Claim(s) <u>1-8</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>1-8</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.		
Application	on Papers		•	
•	The specification is objected to by the Examinon of the Grawing (s) filed on 06 October 2003 is/are		objected to by the Examiner.	
•	Applicant may not request that any objection to the		•	
	Replacement drawing sheet(s) including the corrective oath or declaration is objected to by the E	· ·		
Priority u	nder 35 U.S.C. § 119			•
12)⊠ <i>A</i> a)∑	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea	ts have been received. ts have been received i prity documents have be au (PCT Rule 17.2(a)).	n Application No een received in this National Stage	
Attachment	(s)			
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		ew Summary (PTO-413) No(s)/Mail Date	
3) X Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 No(s)/Mail Date <u>1/5/04</u> .		of Informal Patent Application (PTO-152)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1-8 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a conductive filler dispersed mainly in only one polymeric material phase, does not reasonably provide enablement for the conductive filler equally dispersed in both polymeric material phases. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make or use the invention commensurate in scope with these claims. See paragraph 0013 of the instant specification.
- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 4. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. The examiner agrees with the International Search Report that the use of the parameters and the equation in the claim leads to a lack of clarity. It is impossible to compare the parameters applicants have chosen to employ with what is set out in the prior art. The lack of clarity is such as to render a meaningful complete search

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impossible. Accordingly, the search has been restricted to selection of material pairs having similar melt viscosities or declaring the property inherent in the composition.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1-8 are rejected under 35 U.S.C. 102(a or b or e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Wessling 4,929,388, Tajima et al. 5,225,471, Sumita et al. 5,213,736, FI 991,372, with Karttunen et al. 6,638,448 used as its certified English translation, Foulger 6,197,219, Thielen et al. 6,331,586 or Kanebo LTD JP-59-223313.
- 8. Wessling discloses two partially compatible polymers containing metal powders or fibers in claim 1, polymer pairs in claim 2 and metal concentrations in claim 12. Tajima et al. teach the blend of polyacetal and polyurethane with acrylic filler, the two polymers having a surface tension difference of 2.0 dynes/cm, in claim 1, using metal oxides as a filler instead of the acrylic in column 4, lines 62-63. These oxides are conductive according to claim 14 of U.S. Patent 6,814,890. Sumita et al. recite blending two incompatible polymers with a metallic filler in claim 1. Karttunen et al. reveal two incompatible polymers in claim 10 and nickel in claim 17. Foulger divulges two polymers and a conductive filler in claim 1 and metallic particles in claim 5. Thielen et al. display two immiscible polymers and a conductive particle or fiber in claim 1 and

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metallic particles in claims 4-6. Kanebo describes two incompatible polymers and conductive metal oxides in the Abstract. Applicants' claims are not novel. In the alternative, it would have been obvious to one having ordinary skill in the art; at the time the invention was made, to select metallic particles from a list of equivalents.

Double Patenting

9. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 10. Claims 1-8 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1-23 of U.S. Patent No. 6,638,448. Although the conflicting claims are not identical, they are not patentably distinct from each other because the compositions are basically identical.
- 11. The examiner does not know what the respective surface tensions of the cited polymers are and he cannot obtain them in the time allotted to the examination of the instant application. Applicants are requested to supply this data to the examiner, since they must have had them in order to reduce this invention to practice.
- 12. Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Peter Szekely whose telephone number is (571) 272-1124. The examiner can normally be reached on 7:00 a.m.-5:30 p.m. Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Peter Szekely Primary Examiner Art Unit 1714

P.S. 10/7/05